

Wisconsin Highway Research Program

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Research Implementation & Project Closure

Project Information	
<i>(To be completed by WHRP staff when draft report is received)</i> Date completed: July 16, 2007	
Project Title: Development of In-Place Permeability Criteria for HMA Pavements in Wisconsin - Phase I	Project ID: 0092-06-02
Technical Oversight Committee: Flexible Pavement	TOC Chair: Len Makowski
Project Start Date: October 1, 2005	WisDOT Project Manager: Erv Dukatz
Project End Date: March 1, 2007	Approved Contract Amount: \$60,000
Final Report Dated: March 2007	Actual Project Expenditures: \$60,000
Principal Investigator: Robert Schmitt Organization: University of Wisconsin - Platteville	Co-investigators (including research assistants) and Organizations:

Implementation / Further Research Recommendations		
<i>(Information provided by TOC and WisDOT project manager when final report is approved)</i> Date completed:		
1. What WisDOT policy or practice does this research project pertain to? Please identify the specific section(s) of the Facilities Development Manual (FDM), Construction and Materials Manual (CMM), Standard Specifications, other manual, or accepted practice to which this research pertains. Specifications 460.3.3.1		
2. Based on the results of this research, the following steps are recommended. (Please select either A, B or C, and provide detail in Items 3 to 7, below.) <input type="checkbox"/> A. No further activity is necessary. (Please skip to Item 7.) <input checked="" type="checkbox"/> B. Revisions to WisDOT policy or practice <u>are not appropriate at this time</u>. However, to gain further value from this research, we recommend follow-up research and/or validation activities as detailed in 3 through 6, below. <input type="checkbox"/> C. The Technical Oversight Committee recommends implementing changes to the following WisDOT policies or practices. (Please identify specific section(s) of specific manuals, where applicable):		
3. Describe the scope and objectives of follow-up research or implementation of specific changes to WisDOT procedures. A phase II study has been contracted, focused on determining the relationship between field compaction temperatures and as-built density and permeability		
4. Details of Follow-up Research or Implementation Activities:		
Task	Person responsible	Target completion date
1. Literature Review	Erv Dukatz	3/31/2008
2. Experimental Design	Erv Dukatz	3/31/2008
3. Field Data Collection	Erv Dukatz	3/31/2008
4. Data Analysis	Erv Dukatz	3/31/2008
5. Interim Summary Report	Erv Dukatz	3/31/2008
6.		
5. Estimated cost, if any, for equipment, training, printing, etc.: \$60,000		
6. Expected benefits and how they will be measured (dollar savings, time savings, etc.): Improved pavement performance through refined density criteria. Better construction practices through understanding of the effect of temperature on compaction.		

7. Reasons for terminating activities related to this research project:

N/A

Project Closure

(Information provided by principal investigator and WisDOT project manager when final report is approved)

Date completed:

Timeline and budget

1. Was the project completed on time (i.e., per the original contract between WisDOT and the performing organization)?

- ☐ Yes
☒ No

1a. If not, what additional time was needed to complete the project?

Final Report presentation and review time

What were the reasons?

- ☐ Data access ☒ Reporting/revision delay
☐ Testing delay ☐ Research subcontractor delay
☐ Construction delay ☐ Work plan modification
☐ Administrative delay

2. Was additional funding sought for this project?

- ☐ Yes
☒ No

2a. If yes, how much? n/a

Was the funding approved? ☐ Yes ☐ No

For what purpose?

Partnerships and facilities

3. Did this research effort include partnerships with other universities, agencies, or other stakeholders?

- ☒ Yes
☐ No

3a. If yes, please list. Include the locations of any out-of-state institutions.

L. Allen Cooley, Jr., NCAT, Auburn, Alabama

4. Indicate the location of facilities used:

- ☒ University
☐ Wisconsin DOT
☐ Other:

4a. Please describe the type of laboratory and testing facilities used.

UW-Platteville Materials and Testing Lab

Test equipment for Bulk Specific Gravity determination by UW-Platteville research student

Student involvement

5. Were graduate students employed for this study?

- ☐ Yes
☒ No

5a. If yes, how many? 0

Number male 0

Number female 0

6. Did any of the graduate students use this research project in a published thesis or article?

- ☐ Yes ☐ Not sure
☐ No ☒ N/A

6a. Citations of published theses or articles:

Under TRB review

7. Were undergraduate students employed for this study?

- ☒ Yes
☐ No

7a. If yes, how many? 2

Number male 2

Number female 0

8. If known, please list the graduate students' current occupations or affiliations (e.g., continuing graduate education, employed at a public agency or private firm, etc.) and completed degrees and awarding institutions.

n/a

9. If known, please list the undergraduate students' current occupations or affiliations (e.g., continuing graduate education, employed at a public agency or private firm, etc.) and, where applicable, completed graduate degrees and awarding institutions.

Nicholas Hoerncke has been hired by Ayres Associates, Madison office, as a project manager on East Washington reconstruction project. Adam Schmitt is a continuing civil engineering studying at UW-Platteville